

Au 1807
 # Ray Sec.
 5/1/98
 report

08/530,112

2/10/95

536

10/23/96

Anne-Marie Corrigan

703-308-4222

11



Name of the virus:

☐☒

Other: *see attached*

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS

SEQ ID NO: 1 (delete)

(A) LENGTH: 704

(B) TYPE: nucleic acid → (C) STRANDEDNESS: mandatory response for nucleic acids

(D) TOPOLOGY: linear → (vii) IMMEDIATE SOURCE:

(E) CLONE: HUMGS00001

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GATCTTCAAA	CAAGCATCAG	CGTTTTCAG	GGCTTCCCAG	AGGTCTGTGC	GACTAGCCCCG	60
TGTCTATCAA	AAGTTATTAG	AGAGGATGAA	GCATTAGCTT	GAAGCACTAC	AGGAGGAATG	120
CACCACGGCA	GCTCTCCGCC	AATTTCTCTC	AGATTTCCAC	AGAGACTGTT	TGAATGTTTT	180
CAAAACCAAG	TATCACACTT	TAATGTACAT	GGGCCGCACC	ATAATGAGAT	GTGAGCCTTG	240
TGCATGTGGG	GGAGGAGGGA	GAGAGATGTA	CTTTTAAAT	CATGTTCCCC	CTAAACATGG	300
CTGTTAACCC	ACTTGCATGC	AGAACTTGG	GATGTCACTT	GCCTGACATT	CACTTTCCAG	360
GAGAGGACCC	TATCCCCAAA	TGTGGAATTG	ACTTGCCTAT	GGCCAAGGTC	CCTTGGNAAA	420
GGGAGCTTCA	GTATTTGTGG	GGGCNTCATA	AAACCATGGN	TTCAAGNCAA	TCCAGCCTCA	480
TNGGGNNGGT	CCTGGGNACA	GTTTTTGGT	AAAGGCCCTT	GGCCCAGNTG	GGGGGAATGG	540
GCCTCCTTTT	TAAGNTTTGG	GNTGGAATNG	TCTNGCAAAT	TGGGGCTCCC	ATTCNCGGG	600
GGTTTGGGGG	TTTTTTNNGG	CCTTNCCNGG	NNGGAAGGGN	TGGGTTTGGG	GGNTNGGTTN	660
CCNTTGGGNG	GGCCTGGGGN	TTTGATTNA	CCCGGNGCTT	NGN		704

SEQ ID NO: 2

LENGTH: 659

TYPE: nucleic acid

TOPOLOGY: linear

CLONE: HUMGS00002

SEQUENCE DESCRIPTION:

GATCTTTAA	ATACACACTC	AAATCAAGAA	ACTTAAGGTT	ACCTTTNTTC	CCAAATTTCA	60
TACCTATCAT	CTTAAGTAGG	GACTTCTGTC	TTCACAACAN	ATTATNACCT	TACAGAAGTT	120
TGAATTATCC	GGTCGGGTTT	TATTGTTTAA	AATCATTTCT	GCATCAGCTG	CTGAAACAAC	180
AAATAGGAAT	TGTTTTTATG	GAGGCTTTGC	ATAGATTCCC	TGAGCAGGAT	TTAATCTTT	240
TNCTAACTGG	ACTGGTTCAA	ATGTTGTNCT	CTTCTTTAAA	GGGATGGCAA	GATGTGGGCA	300
GTGATGTCAC	TTAGGGCAGG	GACAGGATAA	GAGGGNTTAG	GGAGAGAAGA	TAGCAGGGCA	360
TGGCTGGGAA	CCCAAGTCCA	AGCATACCAA	CACGGAGCAG	GCTACTGTCA	AGCTCCCCTC	420
GGAGGCGGNG	CTGGTTCACA	GCCAGCTGGC	ACCAGNTTTT	NTNGNGGAAG	NCTTTTTCAA	480
ACAGTCTCAG	GNAATCCAAT	NTGCAAAGAC	TTGCTTTNAG	NAAAACCCAG	NAGTTGAAAG	540
GCTCCCAAGN	ATTTTAAGGG	NACTTNCCAA	AACGGGGCCC	CNGGNCCCTT	TTGGGTTTNG	600
GGGNTCAAAA	CCCCGGAGGG	GTTTGGAAG	NTTTTAATTG	GNTTTAAAN	ATNNNTNTN	659

use above headings

SEQ ID NO: 3

LENGTH: 625

TYPE: nucleic acid

TOPOLOGY: linear

CLONE: HUMGS00003

SEQUENCE DESCRIPTION:

GATCTAACTG	GGTACCTGAG	ATATTTNACA	GCTGGACCTA	GTTTCACAAT	CTGTTGTCTC	60
CAGCTCTGCA	TATGTCTGGC	CAGGGGGCTT	CTAGGAAGTA	GGTTTCATCT	ATCAAATGTC	120
TCCTCTGACT	TCCTTTTGAA	ACTTACTGCT	CTTCTGTTTT	ATTTTGTTTT	GTTTGAAGCT	180
CAGAGGGAGA	TGGGCAATTG	ACAGGGATGC	AATCCAGGGT	GGGATTTCTT	GAGGAAGTTA	240
CAAATAAGCT	TGTTACAACA	TCAAGATAGA	TGGAATTGGA	AGGATGCTAC	CAGGAGAGTA	300
CTTACATAGT	GCTCAGGAGT	TTCTCTTCTT	AAAATGTTTA	CTGCTGAAAG	ATGAGCAGGA	360
CCAGGGCGTT	ATAGGCAGAG	CCCTAGCCGA	GAAACCTGCT	GGCCTCTGCC	TGTTTTTCATT	420
TCCCACTTTT	GGTTGTTGTG	GCATTACTTT	CAGAAATTTGC	ACTTTCCTGC	TTGTCATGAC	480
TTTTTTGGCA	CACTTGCCAT	GACGGGTGTT	TCTGNGAACC	ATGGAAGTTT	TGCGGTAGTG	540
CCTCCAGGGG	CAGGGGGNAA	GGAGGNGGTG	TANCTGCATT	TNGTNCAAAT	AAATCCNGCC	600
TATTGTTAAT	NAACCAGTCT	TTTGN				625

SEQ ID NO: 4

PLEASE FOLLOW ATTACHED SAMPLE SEQUENCE LISTING
and consider purchasing checker software (statement attached)

(3) Computer: Apple Macintosh;
 (i) Operating System: Macintosh;
 (ii) Macintosh File Type: t xt with line termination
 (iii) Line Terminator: Pre-defined by text type file;
 (iv) Pagination: Pre-defined by text type file;
 (v) End-of-file: Pre-defined by text type file;
 (vi) Media: (A) Diskett—3.50 inch, 400 Kb storage;
 (B) Diskette—3.50 inch, 800 Kb storage;
 (C) Diskette—3.50 inch, 1.4 Mb storage;
 (vii) Print Command: Use PRINT command from any Macintosh Application that processes text files, such as MacWrite or Teach Text;
 (4) Magnetic tape: 0.5 inch, up to 2400 feet;
 (i) Density: 1600 or 6250 bits per inch, 9 track;
 (ii) Format: raw, unblocked;
 (iii) Line Terminator: ASCII Carriage Return plus optional ASCII Line Feed;
 (iv) Pagination: ASCII Form Feed or Series of Line Terminators;
 (v) Print Command (Unix shell version given here as sample response—mt/dev/rmt0; lpr/dev/rmt0):
 (g) Computer readable forms that are submitted to the Office will not be returned to the applicant.
 (h) All computer readable forms shall have a label permanently affixed thereto on which has been hand printed or typed, a description of the format of the computer readable form as well as the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form and the name and type of computer and operating system which generated the files on the computer readable form. If all of this information cannot be printed on a label affixed to the computer readable form, by reason of size or otherwise, the label shall include the name of the applicant and the title of the invention and a reference number, and the additional information may be provided on a container for the computer readable form with the name of the applicant, the title of the invention, the reference number and the additional information affixed to the container. If the computer readable form is submitted after the date of filing

under 35 U.S.C. 111, after the date of entry in the national stage under 35 U.S.C. 371 or after the time of filing, in the United States Receiving Office, an international application under the PCT, the labels mentioned herein must also include the date of the application and the application number, including series code and serial number.

§ 1.825 Amendments to or replacement of sequence listing and computer readable copy thereof.

(a) Any amendment to the paper copy of the "Sequence Listing" (§ 1.821(c)) must be made by the submission of substitute sheets. Amendments must be accompanied by a statement that indicates support for the amendment in the application, as filed, and a statement that the substitute sheets include no new matter. Such a statement must be a verified statement if made by a person not registered to practice before the Office.

(b) Any amendment to the paper copy of the "Sequence Listing" in accordance with paragraph (a) of this section, must be accompanied by a substitute copy of the computer readable form (§ 1.821(e)) including all previously submitted data with the amendment incorporated therein, accompanied by a statement that the copy in computer readable form is the same as the substitute copy of the "Sequence Listing." Such a statement must be a verified statement if made by a person not registered to practice before the Office.

(c) Any appropriate amendments to the "Sequence Listing" in a patent, e.g., by reason of reissue or certificate of correction, must comply with the requirements of paragraphs (a) and (b) of this section.

(d) If, upon receipt, the computer readable form is found to be damaged or unreadable, applicant must provide, within such time as set by the Commissioner, a substitute copy of the data in computer readable form accompanied by a statement that the substitute data is identical to that originally filed. Such a statement must be a verified statement if made by a person not registered to practice before the Office.

Appendix A—Sample Sequence Listing.

(1) GENERAL INFORMATION:

(i) APPLICANT: Doe; Joan X. Doe, John Q.
 (ii) TITLE OF INVENTION: Isolation and Characterization of a Gene Encoding a Protease from *Paramecium* sp.
 (iii) NUMBER OF SEQUENCES: 2
 (iv) CORRESPONDENCE ADDRESS:
 (A) ADDRESSEE: Smith and Jones
 (B) STREET: 123 Main Street
 (C) CITY: Smalltown
 (D) STATE: Anystate
 (E) COUNTRY: USA
 (F) ZIP: 12345
 (v) COMPUTER READABLE FORM:
 (A) MEDIUM TYPE: Diskette, 3.50 inch, 800 Kb storage
 (B) COMPUTER: Apple Macintosh
 (C) OPERATING SYSTEM: Macintosh 5.0
 (D) SOFTWARE: MacWrite
 (vi) CURRENT APPLICATION DATA:
 (A) APPLICATION NUMBER: 09/999,999
 (B) FILING DATE: 28-FEB-1989
 (C) CLASSIFICATION: 999/99
 (vii) PRIOR APPLICATION DATA:
 (A) APPLICATION NUMBER: PCT/US88/99999
 (B) FILING DATE: 01-MAR-1988
 (viii) ATTORNEY/AGENT INFORMATION:
 (A) NAME: Smith, John A.
 (B) REGISTRATION NUMBER: 00001
 (C) REFERENCE/DOCKET NUMBER: 01-0001
 (ix) TELECOMMUNICATION INFORMATION:
 (A) TELEPHONE: (909) 999-0001
 (B) TELEFAX: (909) 999-0002
 (2) INFORMATION FOR SEQ ID NO: 1:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 954 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: genomic DNA
 (iii) HYPOTHETICAL: yes
 (iv) ANTI-SENSE: no
 (vi) ORIGINAL SOURCE:
 (A) ORGANISM: *Paramecium* sp.
 (C) INDIVIDUAL/ISOLATE: XYZ2
 (G) CELL TYPE: unicellular organism
 (vii) IMMEDIATE SOURCE:
 (A) LIBRARY: genomic
 (B) CLONE: Para-XYZ2/38
 (x) PUBLICATION INFORMATION:
 (A) AUTHORS: Doe, Joan X. Doe, John Q.
 (B) TITLE: Isolation and Characterization of a Gene Encoding a Protease from *Paramecium* sp.
 (C) JOURNAL: Fictional Genes
 (D) VOLUME: 1
 (E) ISSUE: 1
 (F) PAGES: 1-20
 (G) DATE: 02-MAR-1988
 (K) RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 954

BILLING CODE 3510-16-M

21. *Chrysomelidae* (100%)

BILLING CODE 3510-16-C

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 82 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(ix) FEATURE:

(A) NAME/KEY: signal sequence

(B) LOCATION: -34 to -1

(C) IDENTIFICATION METHOD: similarity
to other signal sequences, hydrophobic(D) OTHER INFORMATION: expresses
protease

(x) PUBLICATION INFORMATION:

(A) AUTHORS: Doe, Joan X, Doe, John Q

(B) TITLE: Isolation and Characterization
of a Gene Encoding a Protease from
Paramecium sp.

(C) JOURNAL: Fictional Genes

(D) VOLUME: I

(E) ISSUE: 1

(F) PAGES: 1-20

(G) DATE: 02-MAR-1988

(K) RELEVANT RESIDUES IN SEQ ID NO:

2: FROM -34 TO 48

BILLING CODE 3510-10-M

Here's where sequence 2 starts (after
the sequence data of SEQ ID NO:1.)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Thr Pro Pro Glu Arg Leu Phe Leu Pro Arg Val Cys Gly Thr Thr
-30 -25 -20

Leu His Leu Leu Leu Leu Gly Leu Leu Leu Val Leu Leu Pro Gly Ala
-15 -10 -5

His Gly Leu Met His Leu Ala His Ser Asn Leu Lys Pro Ala Ala His
1 5 10

Leu Ile Tyr Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg Ala Asn Thr
15 20 25 30

Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn Asn Ser Leu
35 40 45

Leu Val

BILLING CODE 3510-16-C

Notice of Availability

Applicant Aid for Biotechnology Computer Readable Form (CRF) Sequence Listings Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (sequence rules: 37 CFR 1.821 through 1.825). (Final rules were published in the *Federal Register* (55 FR 18230) on May 1, 1990, and in the *PTO Official Gazette* (1114 Off.Gaz.PatOffice 29) on May 15, 1990.)

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software will be available via computer downloading (details below). Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the *PTO Official Gazette*.

The software can be accessed/requested in the following locations:

- 1) Dial-up access to the Patent and Trademark Office Bulletin Board System.
Phone number: 703-305-8950
Cost: Free-of-charge
- 2) Dial-up access through the Internet. FTP site: ftp.uspto.gov
Login as "anonymous". Software is in directory /pub/checker
Cost: Free-of-charge
- 3) For diskette copies, telephone requests to 703-306-2600.
Cost: \$25.00

For Further Information Contact: Meredith Beckhardt at 703-308-4212.